

## Claims

1. Composition containing  
(A) at least one crystalline polycaprolactone (PCL) or a mixture of such polycaprolactones and  
(B) at least one wax having a melting point in the region between 50°C and 180°C or a mixture of such waxes and  
(C) optionally further additives  
characterized in that the wax of the component (B) is selected from the group
  - castor wax, i.e. partially or completely hardened (hydrated) castor oil and/or
  - triglycerides of partially or completely hydrated mono-, di- and/or trihydroxy carboxylic acids and carboxylic acids and/or
  - triglycerides of partially or completely hydroxylated di-, tri- and/or polyhydroxy carboxylic acids and carboxylic acids and/or
  - hydroxy carboxylic acid amides and/or
  - hydroxy carboxylic acid salts,wherein the weight ratio between the component (A) and component (B) is between approximately 05:95 and 95:05.
2. Composition according to claim 1, characterized in that the component (A) comprises highly crystalline polycaprolactone with a molecular weight of approximately 20,000 to 180,000, a melting range of approximately 50°C to 120°C, and a crystallization temperature of less than 40°C.
3. Composition according to claim 2, characterized in that the melting range of the component (A) is between 58°C and 62°C.

4. Composition according to any one of the claims 1 through 3, characterized in that the weight ratio between component (A) and component (B) is in a range of approximately 20:80 and 80:20, in particular between approximately 40:60 to 70:30.
5. Composition according to any one of the claims 1 through 4, characterized in that the component (B) comprises a solidified castor oil (castor wax) having a melting point of between approximately 81°C and 92°C.
6. Composition according to any one of the claims 1 through 4, characterized in that the component (B) comprises a triglyceride of hydrated mono-, di- and/or trihydroxy carboxylic acids and carboxylic acids and/or a triglyceride of hydroxylated di-, tri- and/or poly hydroxy carboxylic acids and carboxylic acids or a mixture of such triglycerides or several such triglycerides with castor wax, wherein the triglyceride has a melting range between 50°C and 180°C, in particular of 70°C to 180°C.
7. Composition according to any one of the claims 1 through 4, characterized in that the component (B) comprises a hydroxy carboxylic acid amide or a mixture of such hydroxy carboxylic acid amides or of several such hydroxy carboxylic acid amides with castor wax, wherein the hydroxy carboxylic acid amide has a melting range between 50°C and 180°C, in particular 70°C to 180°C.
8. Composition according to any one of the claims 1 through 4, characterized in that the component (B) comprises a hydroxy carboxylic acid salt or a mixture of such hydroxy carboxylic acid salts or of several such hydroxy carboxylic acid salts with castor wax,

wherein the hydroxy carboxylic acid salt has a melting range between 50°C and 180°C, in particular 70°C to 180°C.

9. Composition according to claim 8, characterized in that the hydroxy carboxylic acid salt is a metallic salt of the group of calcium-, magnesium- and/or zinc soaps.
10. Composition according to any one of the claims 6 through 9, characterized in that the weight portion of triglyceride of hydrated mono-, di- and/or trihydroxy carboxylic acids and carboxylic acids and/or of the triglyceride of hydroxylated di-, tri- and/or poly hydroxy carboxylic acids and carboxylic acids and/or the hydroxy carboxylic acid amide and/or hydroxy carboxylic acid salt or a mixture of such triglycerides, hydroxy carboxylic acid amide and/or hydroxy carboxylic acid salts of the component (B) is approximately 1% to 99%, in particular approximately 10% to 70%.
11. Composition according to any one of the claims 1 through 10, characterized in that it contains further additives which are selected from the group of fillers, sliding agents, plasticising agents, stabilizers, flame retardants, colorants, inorganic and organic pigments, foaming means and modifiers of tensile strength, rigidity, impact strength, resistance to tear propagation, processing viscosity, or other additives known per se in polymeric chemistry.
12. Composition according to any one of the claims 1 through 11, characterized in that it has been processed using a conventional device, which is suited for tube foil production, blow forming, deep drawing, extrusion and co-extrusion (rod, tube and film extrusion) press forming, injection molding, doctoring, foaming, casting, spraying, painting, lamination and immersion methods.

13. Objects in the form of foils, bags, sacks, tubes, rods, bottles, cups, packaging materials, each optionally in the form of one or several layers, cold or warm-stretched, foamed, as powder, granulated matter or semi finished products, produced from a composition in accordance with one of the claims 1 through 12.
14. Objects in the form of agricultural foils, plant pots, compost bags, carrier bags, shampoo bottles, plates, boards, cutlery, tube foils for the production of bags and sacks, injection molding and blow forming articles, hot melts or fillers produced from the composition in accordance with any one of the claims 1 through 12.
15. Objects according to claim 13 or 14, comprising a surface coating of a composition in accordance with any one of the claims 1 through 12.
16. Method for producing a composition according to any one of the claims 1 through 12, characterized in that the molten components (A) and (B) are mixed in a suitable device and the optional additives are added simultaneously or subsequently.